

Title (en)
Insulin delivery system with sensor

Title (de)
Insulinabgabesystem mit Sensor

Title (fr)
Système d'administration d'insuline équipé d'un capteur

Publication
EP 1575656 A1 20050921 (EN)

Application
EP 03777594 A 20031014

Priority
• US 0332506 W 20031014
• US 41755902 P 20021011
• US 43223302 P 20021211

Abstract (en)
[origin: US7060059B2] A closed loop therapy system for controlling a concentration of a substance, such as blood glucose concentration, in the body of a user. The system and method employ a sensor system that measures a glucose level in the body, a controller that uses the measured glucose levels to generate an output that can be used to automatically or manually control an intradermal insulin infusion system to set a constant or time-varying profile of target blood glucose concentrations in a user, and then infuse an appropriate amount of insulin into the body of the user so as to reach and maintain the target values of the blood glucose concentration.

IPC 1-7
A61M 31/00; **A61K 9/22**

IPC 8 full level
A61K 9/22 (2006.01); **A61K 38/28** (2006.01); **A61M 31/00** (2006.01); **A61M 5/142** (2006.01); **A61M 5/172** (2006.01)

CPC (source: EP KR US)
A61K 38/28 (2013.01 - EP US); **A61M 5/00** (2013.01 - KR); **A61M 5/168** (2013.01 - KR); **A61M 5/31** (2013.01 - KR); **A61M 31/00** (2013.01 - KR); **A61M 31/002** (2013.01 - EP US); **A61P 3/10** (2018.01 - EP); **G16H 20/17** (2018.01 - EP US); **G16H 40/63** (2018.01 - EP US); **A61M 5/172** (2013.01 - EP US); **A61M 2005/14208** (2013.01 - EP US); **A61M 2230/201** (2013.01 - EP US)

Cited by
US11744945B2; US11957876B2; US11154656B2; US11941392B2; US10940267B2; US10960137B2; US11116902B2; US11744947B2; US11766518B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2004152622 A1 20040805; **US 7060059 B2 20060613**; AT E433775 T1 20090715; AU 2003287073 A1 20050714; AU 2003287073 B2 20090108; CA 2505639 A1 20040411; CA 2505639 C 20120703; CN 1859943 A 20061108; CN 1859943 B 20100929; DE 60328039 D1 20090730; DK 1575656 T3 20090914; EP 1575656 A1 20050921; EP 1575656 A4 20080305; EP 1575656 B1 20090617; ES 2328806 T3 20091118; JP 2006510467 A 20060330; JP 4599296 B2 20101215; KR 101226540 B1 20130125; KR 20060057522 A 20060526; WO 2005061041 A1 20050707

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US 68346603 A 20031014; AT 03777594 T 20031014; AU 2003287073 A 20031014; CA 2505639 A 20031014; CN 200380105516 A 20031014; DE 60328039 T 20031014; DK 03777594 T 20031014; EP 03777594 A 20031014; ES 03777594 T 20031014; JP 2005512373 A 20031014; KR 20057006223 A 20031014; US 0332506 W 20031014